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... is actually the desired "equilibrium" values for **authority** scores and **hub** scores. ... weight
distribution, then a \mathbf{a} is a unit **eigenvector** corresponding to a ...

Description: A Kleimberg's algorithm improvement. [PDF format]

Category: [Computers > Software > ... > Ranking > By Context](#)www2002.org/CDROM/poster/171.pdf - [Similar pages](#)**Web Page Scoring Systems for Horizontal and Vertical Search**

... large highly connected communities of Web pages tend to attract the principal
eigenvector of , thus ... On the other hand the **hub** and **authority** model can ...

Description: "Random Surfer" model extension. At each step of traversal of the Web graph, the surfer can
jump to...

Category: [Computers > Software > ... > Ranking > By Context](#)www2002.org/CDROM/refereed/629/ - 101k - Jun 26, 2003 - [Cached](#) - [Similar pages](#)**[PDF] Summary for Authoritative Sources in a Hyperlinked Environment by ...**File Format: PDF/Adobe Acrobat - [View as HTML](#)

... Suppose again A denotes the **adjacency** matrix. ... rank corresponds to the principle **eigenvector**
of (A ... Finally, the **authority/hub** structure considered in this paper ...

www.cs.rpi.edu/~sibel/teaching/mmdb2003/handouts/kleinberg.pdf - [Similar pages](#)**[PDF] 1 Page Rank 2 Hubs and Authorities 3 Adjacency Matrix**File Format: PDF/Adobe Acrobat - [View as HTML](#)

... performing I and O operations, and iterating: $a(p)$: **authority** score ("I ... i, (q,p) E
 $h(q)$ $h(p)$: **hub** score ("O ... i * a i converges to a (\mathbf{a} : dominant **eigenvector** of A ...

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... $a(p)$: **authority** score ("I" operation). $a(p) = \sum_i q_i(q,p)2E_i$. $h(q)$. $h(p)$: **hub** score
("O" operation). $h(p) = \sum_i a_i$ converges to \mathbf{a}^* (\mathbf{a}^* : dominant **eigenvector** of $AT A$). ...

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[PPT]need , behaviour , use (part i)File Format: Microsoft Powerpoint 97 - [View as HTML](#)... of A, then cX (where c is any constant) is also an **eigenvector** of A. ... note: the normalization ensures that **authority** weights and **hub** weights both sum to ...skipper.gseis.ucla.edu/faculty/jfurner/02-03/276/276lec8.ppt - [Similar pages](#)[PDF]A unifying model of document relatedness for hybrid search ...File Format: PDF/Adobe Acrobat - [View as HTML](#)... each document, determined by calculating the dominant **eigenvector** of a ... of citivity and citedness, to more-complex "PageRank," **authority**, and **hub** scoresskipper.gseis.ucla.edu/faculty/jfurner/02-03/276/02isko.pdf - [Similar pages](#)[\[More results from skipper.gseis.ucla.edu \]](#)[PDF]Modifications of Kleinberg's HITS Algorithm Using Matrix ...File Format: PDF/Adobe Acrobat - [View as HTML](#)... and that the entries of the corresponding **eigenvector** are all ... middle-level node only a little less **authority** than the ... nodes except the root non-zero **hub** weight ...www.damtp.cam.ac.uk/user/jcm52/kleinbergposter.pdf - [Similar pages](#)[PS]www.damtp.cam.ac.uk/user/jcm52/kleinbergposter.psFile Format: Adobe PostScript - [View as Text](#)... **authority** [resp. **hub**] weight formula in (1) converges to an **eigenvector** of the dominant eigenvalue of $M \cdot T \cdot M$ [resp. $MM \cdot T$]. ...[Similar pages](#)[\[More results from www.damtp.cam.ac.uk \]](#)[PPT]Authoritative Sources in a Hyperlinked EnvironmentFile Format: Microsoft Powerpoint 97 - [View as HTML](#)... $\{x(p)\}$ is a vector x with **authority** weight for each ... $\{y(p)\}$ is a vector y with **hub** weight for ... **eigenvector**, and all other $i(M)$ as non-principal **eigenvector**. ...external.nj.nec.com/homepages/ingemar/course/presentations/1015-1.ppt - [Similar pages](#)[PPT]Presentation of Anatomy of a Large-Scale Hypertextual Web Search ...File Format: Microsoft Powerpoint 97 - [View as HTML](#)... solution of $a_i(t+1)$ and $h_i(t+1)$ gives us the principal eigenvectors of the **authority** and **hub** matrices. ... $p>$: be original PR scores (= 1st **eigenvector**). ...www.ics.uci.edu/~scott/linkanalysis_stability.ppt - [Similar pages](#)[PPT]Chapter 6: Beyond KeywordsFile Format: Microsoft Powerpoint 97 - [View as HTML](#)... Hence, a site's **authority** weight is proportional to the sum. of the **hub**-weights of the sites pointing at it. ... A Converges to the principal **eigenvector** of. ...www.ics.uci.edu/~pazzani/chapter6.ppt - [Similar pages](#)[\[More results from www.ics.uci.edu \]](#)[PDF]Automatic extraction of synonyms in a dictionary 1 Introduction 2 ...File Format: PDF/Adobe Acrobat - [View as HTML](#)... vertices pointed by i and, similarly, the **authority** scores of ... equal to the sum of the **hub** scores of ... 2) converges to the normalized principal **eigenvector** of M ...www.inma.ucl.ac.be/~blondel/publications/02BS-syn.pdf - [Similar pages](#)[PDF]Similarity in graphsFile Format: PDF/Adobe Acrobat - [View as HTML](#)... Normalized **hub** scores $z_{1k} = x_{1k} / x_{1k}$ converge to the dominant **eigenvector** of AA^T . Normalized **authority** scores $z_{2k} = x_{2k} / x_{2k}$ converge to the ...www.inma.ucl.ac.be/~blondel/talks/02pai.pdf - [Similar pages](#)[\[More results from www.inma.ucl.ac.be \]](#)[PPT]The Search ProblemFile Format: Microsoft Powerpoint 97 - [View as HTML](#)... For a web site p let $h(p)$ be its **hub** weight and $a(p)$ be its **authority** weight. ... HITS. In other words, a is an **eigenvector** of B : ...

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... the **hub** weights $\sim y$ and **authority** weights $\sim x$ Finding Multiple Communities The Iterative Algorithm finds the principal **eigenvector** (ie, the one with the largest ...

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... to the principal **eigenvector** of the normalized link matrix of the Web. ... Each page is initialized with a non-negative **authority** weight and **hub** weight. ...

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... links to authorities (b) Recursive definitions i. Relations to Bonacich or **eigenvector** centrality ii. ... j.bollen@cs.odu.edu **Authority** and **Hub** scores **Authority** ...

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... **adjacency** matrix for the subgraph defined by S . $A_{ij} = 1$ for $i \in S, j \in S$ iff

$i \in j$. **Authority** vector, a , converges to the principal **eigenvector** of ATA . **Hub** ...

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... We prove that the **hub** and **authority** vectors converge to ... T . and A . T . A have identical non-zero eigenvalues. Further, if q is an **eigenvector** of AA^T . then $A^T q$

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... The **hub** scores are obtained through $y = O op (y)$, (3.6) where $O op$ is defined as $O op \dots$ **Authority** scores are contained in the principal **eigenvector** of A ($O \dots$

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... $q) = 1$ ($p \neq q$) Now, if we mark the **Authority** of all the nodes as a vector $\sim a$, and the **Hub** as vector $\sim a = kMTM \sim ak$ $\sim a$ Meaning that $\sim a$ is an **eigenvector** of MTM ...

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... In this formulation, it is easy to see that the **hub** and **authority** indices in a graph with **adjacency** matrix A correspond to **eigenvector** centrality in the ...

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... The **hub** index, $h(G) = h = (h v) v^T$, and the **authority** index, $a(G) = a = (a v) v^T$, and the **authority** index, $a(G) = a = (a v) v^T$. Hubs & authorities are thus **eigenvector** centralities in the weighted undirected ...

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... Showed before can use principal **eigenvector** to calculate ... **authority** is passed directly

from authorities to other ... without interposing a notion of **hub** pages. ...
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... to work on (because the fixed-point algorithm converges to the principal **eigenvector** of a ... The **authority** value is then computed by summing up **hub** values of ...
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... Observation: c is the eigenvalue of A , R is the **eigenvector** of A Given a page p , define $x_{\langle p \rangle}$ be its **authority** weight, define $y_{\langle p \rangle}$ be its **hub** weight. ...
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... A **hub** site links to many **authority** sites and an **authority** site is linked to by many. ... nents of the dominant **eigenvector** will have positive compo- nents ...

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... Let W denote the **adjacency** matrix of the ... h converges to the principal **eigenvector** of WTW The **authority**[**hub**] weights correspond to the stationary distribution ...
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... 1 0 0. **Hub/authority** vectors. View the **hub** scores $h()$ and the **authority** scores $a()$ as vectors with n components. ... Thus, h is an **eigenvector** of AA^t and. ...
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... which point we pick out the pages with the highest **hub** and **authority** scores. ... zero, the function converges to a multiple of w_1 , the principle **eigenvector**. ...
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... at which point we pick out the pages with the highest **hub** and **authority** scores ... zero, the function converges to a multiple of w_1 , the principle **eigenvector**. ...

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... retain the basic power iteration process and the interpretation of **hub** and **authority** scores as components of a principal **eigenvector**, as above. ...

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... H Converges to the principal **eigenvector** of. Kleinberg algorithm. ... In our walk we will travel from **hub** to **hub** or from **authority** to **authority**. ...

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... the **authority** weights and the **hub** weights ... Pages are ranked according to their **authority** weights, which ... coordinates of the normalized principal **eigenvector** 5 of ...

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... of A T A and A A T give respectively the **authority** weights and **hub** weights of the ... Then, the normalized principal **eigenvector** X of C gives the "similarity ...

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... Vertices with highest **authority** weights are best authorities ... graph; vertices with highest **hub** weights are best ... corresponding to the principal **eigenvector** of the ...

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... P times itself repeatedly converges onto a matrix Q, whose columns are identical, each being an **eigenvector** of P ... Deriving the **hub** and **authority** scores from ...

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... this algorithm converges, and that the resulting **authority** weights [**hub** weights] are the coordinates of the normalized principal **eigenvector** 2 of W ...

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... power method of obtaining the first **eigenvector** of matrices ... odd time steps corresponds to the **authority** weights, and even time steps to the **hub** weights An ...

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... PageRank is the dominant **eigenvector** of the probability ... high **authority** score relevant content. high **hub** score links to documents with relevant ...

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... PageRank is the dominant **eigenvector** of the ... and an **authority** score for each document

* high **authority** score relevant content * high **hub** score links ...

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... xn converges to the principle **eigenvector** of ATA, and. yn converges to the principle **eigenvector** of AAT. ... HTML. Document. HTML. Document. HTML. Document. **Authority. Hub.** ...

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... where **A** is the **adjacency** matrix ... hubs and authorities into an **eigenvalue-eigenvector** problem ... indicate the strength of the corresponding **authority (hub)** weights of ...

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... **hub/authority** scores: strongest left- and right- eigenvectors of the **adjacency** matrix. ... state probabilities are given by the strongest **eigenvector** of the ...

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... P. y[q. i.]. Figure 150: Calculating the **hub** weight and **authority** weight of a page p. 269. ... T. A and AA. T. . Each **eigenvector** corresponds to one community. ...

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... 2. i. . Similarly, each column of **U** is an **eigenvector** of **AA. T.** ... principal **hub**". An "**authority**" is a page that is pointed to by multiple relevant hubs. ...

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... **Authority** and **hub** weight vectors. $X=(X_1,X_2,...,X_n)$ / $Y=(Y_1,Y_2,...,Y_n)$ The sequence of iterates from vector **X** converges to the principle **eigenvector** of **ATA.** ...

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... Then, it can be shown that, the **authority** and **hub** arrays, **a** and **h**, converge to the principal **eigenvector** of **A T A** and **AA T** respectively. ...

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... Let **h(x)**, **a(x)** be **hub/auth** score of ... principle **eigenvector** of **WW'** **a** is principle **eigenvector** of **W** ... result, IE download page becomes an **authority** for everything! ...

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... **HITS**, and **SALSA** algorithms, the uniqueness of the **PageRank eigenvector**, and the ... structure of a network of web pages to assign **authority** and **hub** weights to ...

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... The positive and negative components of each **eigenvector** give a prospective pair ... 2

Brian Dean, 1999 web is assigned a **hub** score **h i** and an **authority** score **a** ...

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... of multiplying the vector of all **authority** weights by ... that the resulting **au- thority** weights [**hub** weights] are ... of the normalized principal **eigenvector** 13 of **W** ...

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... determines authorities by computing the principal **eigenvector** of the ... that an article has high "**authority**" weight if ... and that a page has high **hub** weight if ...

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a web page may be an **authority** on a subject or a **hub**, a page that ...

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... k. have large overlap with the negative region of another **eigenvector** u. ... This happens for. ... they are ranked very high in both **authority** list and **hub** list. ...

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... for **eigenvector** f with the second smallest eigenvalue. ... The **authority** and **hub** information can be extracted based entirely on the link structure. ...

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... it on the next entry to the **authority(hub)** side of ... The **adjacency** matrix of the support graph of A~ is ... the sites whose entries in the principal **eigenvector** of A ...

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... the **Hub** and **Hub** = A Auth , the **authority** scores of ... A T A , and the **hub** scores (ie **Hub**) are correspondent to the principal **eigenvector** of matrix ...

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... As before, the **hub** and **authority** scores converge to ... after about five power iterations, obviating the need for more sophisticated **eigenvector** computa- tion ...

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... The **hub** index, $h(G) = h = (hv)v^T$, and the **authority** index, $a(G) = a$... Hubs & authorities are thus **eigenvector** centrali- ties in the weighted undirected graphs ...

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... q1. q2. q3. p1. p2. **Authority** and **Hub** Pages (12): After 2 Iterations: ... So we converge finally to the direction of principal **eigenvector**. ...

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... So we converge finally to the direction of principal **eigenvector**. What

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... x_h . This iterative process converges to yield the **authority** and **hub** vector for ... of
 vector a when normalized, converge to the principal **eigenvector** of $M^T M$...
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... Both of these algorithms use **eigenvector** calculations to assign "au ... posits that an
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... (c) Thrid **Eigenvector**. ... the word-nodes have non-zero **hub** weights (since none of the
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... it on the next entry to the **authority(hub)** side of ... The **adjacency** matrix of the support
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... The principal **eigenvector** associated to each term is the stationary ... matrixes, say
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... ascent HITS has a different approach in lifting the **authority** and **hub** measures for ... This
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... If the ranks converge, ie, there is a rank vector R such that $R = M R$, R is
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... reinforce each other, a good t-**hub** must point ... t-authorities, and a good t-**authority**
 must be ... Hubs ranks = normalized principle **eigenvector** of (WWt) Authorities ...

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... are made symmetric and the ranks given as the **eigenvector** of $(A + A^T)$ The **hub** vectors in turn can be similarly calculated using the **authority** vector a

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... **eigenvector** of AA^T corresponds to its **hub** weight, while its component in the principal **eigenvector** of $AT A$ corresponds to its **authority** value. ...

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... The retrieved solution corresponds to the principal **eigenvector** of the normalized ... Y two vectors of size n representing the **authority** and **hub** scores for ...

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... The operation sets the **authority** vector to h . The operation sets the **hub** vector to a ... we are considering) converge naturally to their principal **eigenvector**, ie to ...

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... of ATA and AAT is readily obtained from S , and the corresponding **eigenvector** of ATA ... This **adjacency** matrix yields the following **authority** and **hub** vectors: ...

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... Then A has a positive real eigenvalue λ_1 , and λ_1 has an associated **eigenvector** x_1 with strictly ... HITS Algorithm **Hub** vector h **Authority** vector a

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... sequences of iterations converges to the principal **eigenvector** of ATA ... consisting of the pages with the largest **hub** weights and **authority** weights for a ...

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